## In the Claims:

1.	(Presently Amended)	A method, for analyzing the quality of a high speed signal		
comp	rising the steps of:			
setting a phase rotator in a first position;				
	_initializing a partial value ass	sociated to said set phase rotator position;		
	sampling said-a high speed signal to generate a signal sample;			
	shifting the signal sample by 1 bit to generate a shifted sample;			
XORing said sample and said shifted sample shifted by 1 bit;				
ORing the a result of said XOR XORing operationstep with said partial resultvalue				
associated to said set phase rotator position;				
	_replacing <del>the value of s</del> aid pa	rtial resultvalue associated to said set phase rotator position		
by the with a result of said OR operation ORing step;				
	_repeating the last four act five	steps of sampling, shifting, XORing, ORing and replacing		
during a predetermined time interval to thereby generate the partial value associated to said set				
phase rotator position;				
	_setting said phase rotator in a	second position and repeating the last six acts seven steps		
of initializing, sampling, shifting, XORing, ORing, replacing and repeating to thereby generate a				
partial value associated to said second phase rotator position; and				
	_combining said partial <del>result</del> y	values associated to said first and second positions into a		
global value; and				
	analyzing the global value to	determine a quality of the high speed signal.		
2.	(Presently Amended)	The method of claim 1 wherein the phase rotator is set to		
		ultvalue being determined for each position of said phase		
rotator, and wherein the step of combining said partial values into the global value quality of said				
high speed signal is characterized by the combination of said partial results comprises combining				
all of said partial values into the global value.				
3.	(Cancelled)			

4.	(Presently Amended)	The method of claims 1 or 2 wherein the step of repeating		
the last five steps of sampling, shifting, XORing, ORing and replacing during a predetermined				
time interval to thereby generate the partial value associated to the set phase rotator position is				
repeated several hundreds of sampling are donetimes for each position of said phase rotator.				
5.	(Presently Amended)	The method of claims 1 or 2 wherein the step of analyzing		
the global value further comprising comprises the steps of:				
correcting the global value characterizing the quality of said high speed signal to generate				
a corrected global value, and				
analyzing the corrected global value.				
6.	(Presently Amended)	The method of claim 5 wherein said the step of correcting		
said global value characterizing the quality of said high speed signal comprises:				
if said-the step of shifting is a right shifting, suppressing a number n of consecutive bits				
equal to one, from the right, for each set of consecutive bits equal to one; and				
if said-the step of shifting is a left shifting, suppressing a number n of consecutive bits				
equal to one, from the left, for each set of consecutive bits equal to one, wherein n is the number				
of position reached by said phase rotator, minus one.				
7.	(Presently Amended)	The method of claims 1 or 2 further comprising:		
	_replacing <u>a</u> value zero by <u>a</u> ch	naracter `-` in the global value characterizing the quality of		
said high speed-signal; and				
replacing a value one by a character 'X' in the global value characterizing the quality of				
said high speed signal.				
8.	(Presently Amended)	The method of claims 1 or 2 further comprising the step of		
analyzing the behavior of said phase rotator according to said high speed signal.				

9. (New) The method of claim 6, wherein the step of analyzing the corrected global value further comprises the steps of:

constructing a digital eye from the corrected global value; and analyzing the digital eye to determine the quality of the high speed signal.

10. (New) The method of either claim 1 or claim 2, further comprising the step of storing the partial values as a table entry having a common number of bits, a table entry row corresponding to the partial value phase rotator position and a table entry column corresponding to a partial value bit position; and

wherein the step of combining said partial values into the global value comprises merging stored partial value bits according to a table storage order.

- 11. (New) The method of claim 10 wherein the step of merging the stored partial value bits into the global value comprises concatenating the stored bits in an order from a table top to a table bottom and from a table right to a table left.
- 12. (New) The method of claim 11 wherein the step of concatenating comprises the steps of:

initializing the global value and a row variable I to zero; setting a column variable J to the common number of bits; concatenating a partial value bit having a table coordinate (I, J) to the global value; if row variable I is not a last table row:

incrementing the row variable I;

concatenating a partial value bit having a table coordinate (incremented I, J) to the global value; and

repeating the steps of incrementing the row variable I and concatenating the partial value bit having the table coordinate (incremented I, J) until the row variable I is the last table row; and

if row variable I is the last table row and variable J is not equal to zero:

initializing the row variable I to zero;

decrementing the column variable J by one;

concatenating a partial value bit having the table coordinate (I, decremented J) to the global value; and

repeating steps of incrementing the row variable I, and concatenating a partial value bit having the table coordinate (incremented I, decremented J) to the global value for each value of variable J until variable J is equal to zero.

.